Top Secret



DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Selected Iron and Steel Plants China

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CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence Imagery Analysis Service

ABSTRACT

This report covers 43 iron and steel plants which represent all but a small percentage of the known iron and steel production facilities in China. It updates the information on 30 plants described in previous basic reports and includes the initial basic reporting on nine plants. Four other plants which were previously reported were either not covered or not seen on interpretable photography. The cutoff date for information in this report is March 1970.

During the period of this study, 1969-early 1970, 35 of the 43 plants were observed in operation. Of the four primary plants, those at Pao-tou, Shang-hai and Wu-han were observed in operation while the plant at An-shan was not seen during the reporting period.

Construction activity was observed at 22 plants, while no construction was seen at 17 plants. A large rolling mill was partially completed at Pao-tou, a large addition to a rolling mill was completed at Shih-ching-shan, the railroad car holding yard was completed at Shao-kuan, and an addition to the open hearth furnace building was under construction at Wu-han. At Lu-ta, one medium size blast furnace was completed and construction of another may be underway. Significant progress was observed at the large plant under construction at Jen-ho-chieh. Construction at the Chiuchuan plant, previously observed proceeding at a fairly fast pace, appeared to have slowed.

Coverage of the Tai-yuan plant shows that the basic oxygen furnace building will contain four furnaces. No additional basic oxygen furnaces were identified under construction at any of the plants.

This report includes annotated photographs, mensuration of significant features, and discussion of the status and activity at those plants not previously reported. The update reports include a discussion of construction, level of production activity, and a photograph when better imagery than previously used was available.

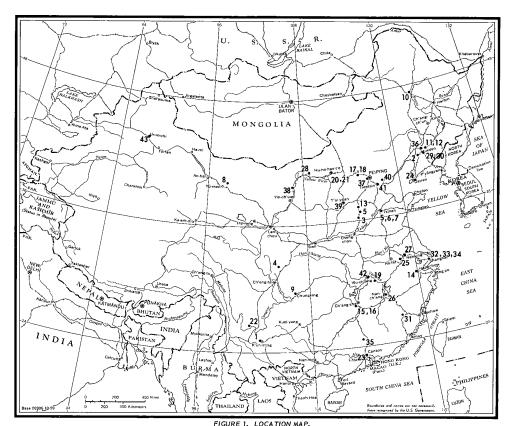
INTRODUCTION

The majority of the Chinese iron and steel plants are located in the industrial north or along the Yangtze River east of Wu-han. Information relative to location, environment, and related installations is included with the individual descriptions of those plants not previously reported.

The length and width measurements indicated on the key to annotations when multiplied may not equal the corresponding square feet of roof cover. The area of roof cover was determined by taking into account all protrusions and accurately determining the total square feet. For brevity, the level of production activity is indicated as inactive (no visible signs of plant operation), low activity (up to 30 percent of the total plant facilities in operation), moderate activity (between 30 and 70 percent of the total plant facilities in operation), and high activity (from 70 to 100 percent of the total plant facilities in operation).

The approximate size of the blast furnaces was determined by comparative analysis. Blast furnaces are described as small (up to 150 tons/day), medium (200-700 tons/day), and large (700-1,300 tons/day).

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An-nina Iron a	and Steel Plant Kun-ming		CH	
TM COORDINATES 18RTC466586	GEOGRAPHIC COORDINATES 24-54-58N 102-29-40E*			25X1
AP REFERENCE	21 37 3011 102 23 102	1		
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6 December 19	969, KH 1108-2	NA		
^f The coordina	tes given in the Data Block	are from the Basic Encyc	opedia and sho	u I d
be changed to Encyclopedia	o 24–54–30N 102–29–30E. Ac corrected.	tion has been initiated to	have the Basi	С
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	BASIC DES	CRIPTION		
Construc	tion of the coke oven batte		d Steel Plant h	as
een complete	d since February 1969, the rt. The iron ore pelletiza	date of the latest photogr	aphy used in t	he
nave also prol	pably been completed. No c	ther changes were evident	within the pla	int
	eviously reported unidentif		отріете.	
Moderate	activity was observed on I	6 December 1969.		
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NSTALLATION OR AC	TIMITY NAME		COUNTRY
NSTALLATION ON AC	TIVITI WANTE		COOKTAT
An-shan Iron a	and Steel Plant		СН
TM COORDINATES	GEOGRAPHIC COORDINATES		
51TVF998535	41-08-14N 122-59-54E		
MAP REFERENCE			
	ATC, Series 200, Sheet 028 ECRET)	39–20HL, 2nd ed, Mar 63, Sca	le 1:200,000
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STALLATION OR AC	TIVITY NAME				COUNTRY	
-vang Iron ar	nd Steel Plan-	+			СН	
M COORDINATES	GEOGRAPHIC COO	RDINATES			Uff .	25X1
SKR551001 PREFERENCE	36-07-20N	114-17-01E				
	C, Series 200), Sheet M0382	-24HL, 3rd	ed, Aug 67, Sca	le 1:200,000	OEV4
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		BASIC DE	SCRIPTION			•
e walled port d occupies an	ion of An-yar	ng. The plant naped <u>area of</u>	is rail aı annrox imate	mately 3.5 nm w nd road served, ely 4,600 by 2,6 located to the w	secured by a 00 feet (Figu	wall, re 2)
hishing mill, tration build der construct Most of the sobserved in bbable coke b 57. By Decemilding (Item ons to anothe	a fire brickling, numerous ion e iron and standard April 1966. y-products see ber 1969, the 10) was first	teel producing The two by-pection were fi by were in the tobserved unded	ndry, a lamort building facilities roduct cokerst observe mid-stage er construc	ree rolling mil rge storage buil rgs, and unident s were complete e oven batteries ed under constru of construction ction in Decembe e first observed	ding, an admi ified buildin when the plan and the asso ction in Nove . An unident r 1968. Modi	n- gs t ciated mber ified fica-
ŭ			erved at th	ne plant on the	referenced im	agery.
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Key to Annotations

ltem No.	Description	Dimensions (F+)	Roof Cover (Sg Ft)	Remarks
ŀ	By-product Coke Oven Batteries (2), U/C			First observed under construction in November 1967, mid-stage of construction December 1969
2	Probable Coke By-products Section U/C			First observed under construction in November 1967, mid- stage of construction December 1969
3	Blast Furnaces (2)			Medium
4 5	Steamplant Rolling Mill and Probable	Irregular	127,460	
	Side-blown Converter Shop	Tiregular	127,400	
	 a. Probable Side-blown Converter Shop b. Rolling Mill 	400 × 135		2 Probable converters and 2 cupola furnaces
6	Probable Foundry .	280×70	19,000	l Stack
7 .	Fire Brick Plant	Irregular	24,800	Modification first ob-
8	Unidentified Building	380 × 50	19,000	served in January 1969.
. 9	Transformer Substation			2 Transformers
10	Unidentified Building U/C			First observed in December 1968, con-
	• •			struction progressing slowly when observed in December 1969
1.1	Rolling Mill	720 × 135	108,600	2 Stacks
12	Probable Finishing Mill	Irregular	41,250	2 Adjacent stacks
13	Rolling Mill a. Blooming/Slabbing b. Rolling Mill c. Rolling Mill	Irregular 380 x 75	117,115	2 Stacks I Stack
14	Storage Building	296 × 90	26,100	
15	Foundry	255 × 95	24,225	2 Furnaces, crane
16	Administration Building	lrregular	74,840	served 4 Story

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oved For Release 2008/05/20 : CIA-	-RDP79T00909A000700010011-7	25X1 25X1
INSTALLATION OR ACTIVITY NAME	COUNTRY	
Chiang-yu Iron and Steel Pla		
UTM COORDINATES GEOGRAPHIC COORD 48RVL777144 31-45-47N 10 MAP REFERENCE		25X1
548+1 . USATC.	Series 200, Sheet MO495-3HL lst ed Nov 66 Scal	25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA NA	25X1 —-—
	BASIC DESCRIPTION	
No changes have been obs November 1968, the date of th	served at the Chiang-yu Iron and Steel Plant sinc he latest imagery used in the previous report.	ce
separating the iron and stee building under construction (November 1969 permitted the identification of a I plant from the fabrication building and an unice north of the plant (Figure 3). The latter faciling the fabrication industry which may utilize some capadjacent plant.	dentified
a foundry (Item 2) and the tridentified. Because of the r	el plant, a producer gas plant (Item 3) has been reported fabrication building has been identified ransformer substation (Item I) has been firmly nearby transformer substation and the absence the previously identified possible electric furnarobable (Item 4).	
A low level of activity	was observed at the plant on the referenced imag	ery.
	Key to Annotations	
Item No.	<u>Description</u>	
1 2	Transformer Substation Foundry	
3 4	Producer Gas Plant Probable Electric Furnace Building	
		25X1
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FIGURE 4. CHI-NAN IRON PLANT EAST,

25X1

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ISTALLATION OR AC	TIVITY NAME	COUNTRY	
Chi-nan Iron P	lan† Eas†	СН	
TM COORDINATES OSNR 3630	GEOGRAPHIC COORDINATES 36-42-40N 117-07-30E		25X1
AP REFERENCE			
(SEC	RET		25X1
TEST IMAGERY USE	.D	NEGATION DATE (If required)	
		NA	25X1
Chi-nan I		DESCRIPTION and approximately 7 nm east-northeast of the	
enter of the o	city of Chi-nan. The pl ble fence. It occupies The plant is connected	ant is road and rail served and secured by an irregular shaped area of approximately 4 by rail to the Chi-nan Iron and Steel Plan 2.3 nm to the east-northeast.	,200
The plant igure 4). No	contains four small bla o changes to the facilit	est furnaces and several support buildings lies were observed between December 1966 and	i
ecember 1969.			
A low leve	el of activity was obser erate level of activity	rved at the plant in December 1966 and Septe in December 1969.	ember
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FIGURE 5. CHI-NAN IRON AND STEEL PLANT,

25X1

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INSTALLATION OR AC	TIVITY NAME		COUNT	RY	
Chi-nan Iron a	nd Steel Plant		СН		
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.	25X
50SNR083585	36-40-15N 117-05-30E		None	None	
	C, <u>Series 200, Sheet M038</u>	1-21HL, 4th ed, Sept 69,	Scale 1:20	00,000	 25X
LATEST IMAGERY USE		NEGATION DATE (IT required)			
		NA			25X

BASIC DESCRIPTION

Chi-nan Iron and Steel Plant is located approximately 5 nautical miles east of the center of the city of Chi-nan. The plant is road and rail served, partially secured by a wall, and occupies an irregular shaped area of approximately 3,000 by 2,500 feet (Figure 5).

The plant contains two beehive coke oven batteries, four small blast furnaces, a side-blown converter shop, one forge/foundry, two probable foundries, one rolling mill, and one probable rolling mill under construction.

The major production facilities were complete in December 1966. An addition to the converter shop was constructed between October 1967 and July 1968. Construction began on the probable rolling mill between September 1968 and October 1969 and it was in a mid-stage when last observed in December 1969.

A moderate level of activity was observed at the plant on the referenced imagery.

Key to Annotations

Item No.	Description	Dimensions (F+)	Roof Cover (Sq Ft)	Remarks
1	Beehive Coke Oven Batteries (2)			
2	Probable Rolling Mill Under Construction	966 x 190	182,400	Mid-stage of construc- tion
3	Rolling Mill	Irregular	43,970	
4	Side-bľown Converter Shop	440 × 150	66,000	Two cupola and two con- verter furnaces
5	Blast Furnaces (2)			Small
6	Blast Furnaces (2)			Small
7	Probable Foundries (2)	250×45	11,250	
		345×60	20,700	
8	Forge/Foundry	Irregular	41,685	

1rregular 41,685

25X1

TOP SECRET



FIGURE 6. CHI-NAN IRON AND STEEL PLANT LI-CHENG

-15-

TOP SECRET

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INSTALLATION OR AC	TIVITY NAME		COUNTRY	
Chi-nan Iron a	nd Steel Plant Li-cheng		СН	<u>-</u>
UTM COORDINATES	GEOGRAPHIC COORDINATES			25X
50SNR150646	36-43-35N 117-10-00E			
MAP REFERENCE				
8th RTS. USAT	· · · · · · · · · · · · · · · · · · ·	-21HL, 4th ed, Sep 69, Scale	1:200,000	25X
LATEST IMAGERY USE	D	NEGATION DATE (If required)		
		NA		25X

BASIC DESCRIPTION

Chi-nan Iron and Steel Plant Li-cheng is located 9 nm east-northeast of the center of the city of Chi-nan. The plant is road and rail served, partially secured by a wall, and occupies an irregular shaped area of approximately 4,500 by 3,500 feet. The Chi-nan Chemical Fertilizer Plant is located immediately to the west.

25X1

The iron and steel plant contains a rolling mill, a probable rolling mill, a side-blown converter shop, two small blast furnaces, two probable fabrication buildings, a probable foundry, a probable ore processing facility, a coke by-products section, and a by-product coke oven battery (Figure 6).

The plant components were complete in December 1966 except for the probable ore processing facility, coke by-products section and the by-product coke oven battery. These facilities had advanced to a late stage of construction when observed in December 1969.

A moderate level of activity was observed from October 1966 through December 1969.

Key to Annotations

Item No.	Description	Dimensions (Ft)	Roof Cover (Sq Ft)	<u>Remarks</u>
1	Rolling Mill	$1,055 \times 150$	158,655	
2	Probable Rolling Mill	430×55	24,790	
3	Side-blown Converter Shop	605 × 120	72,600	At least two converter furnaces
4	Blast Furnaces (2)			Small
5	Probable Fabrication Building	390 × 140	54,600	
6	Probable Foundry	310×95	29,450	
7	Probable Fabrication Building	Irregular	38,650	
8	Probable Ore Processing Facility Under Construc- tion			
9	Coke By-products Section Under Construction			
10	By-product Coke Oven Battery Under Constructio	n		



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NSTALLATION OR AC	TIVITY NAME				COUNTRY	
Chiu chuan Iro	n and Steel Pla	ant			СН	
TTM COORDINATES	GEOGRAPHIC COORD	DINATES		<u> </u>		25X1
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				NA		
		BASIC DES	SCRIPTION			
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	I slowly since : eport. Only m				imagery used in	
plant, blast f	urnace, by-pro	duct coke o	ven batteries,	and coke by-p	roducts section.	
Of the six bui	Idings previous	sly reporte	d under constr	ruction elsewhe	n by March 1970. re in the plant	
progress was e tified at the	evident at only plant, but the	one. Stee y will prob	l production f ably be constr	acilities have ructed later.	not been iden-	
No produc	tion facilitie	s were obse	rved in operat	ion on the ref	erenced imagery.	
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INSTALLATION OR AC	CTIVITY NAME		COUNTRY	
Chung-ching L	ron and Steel Plant No. I		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		I	25X1
48RXH444632 MAP REFERENCE	29-29-05N 106-29-30E			
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There has since March 19	s been no coverage of the 969, the date of the lates	Chung-ching Iron and St t photography used in 1	teel Plant No. I the referenced	
report.	•	, ,		

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INSTALLATION OR A	CTIVITY NAME		COUNTRY
Fu-la-erh-chi	Steel Plant		СН
UTM COORDINATES	GEOGRAPHIC COORDINATES		
51TWN468260	47-11-30N 123-37-07	<u>′E</u>	
2nd RTS. USA	TC, Series 200, Sheet	M0283-6HL, 3rd ed, Sep 69, Sca	le 1:200.000
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	_	NA NA	
	BASI	C DESCRIPTION	
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shaped area o	f approximately 4	,100 by 4,00	ou teet (Figure 7). rthwest at 36-37N	14-24E, and may be	
accociated wi	th the Han-tan ir	on and Stee	I Plann. The non-	plant contains two smal	l
	s and two beehive			1000	
				r to April 1966. When	
the plant was					
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converter sho foundry, tran complete. By been construction product coke probable stea were never ob	p, six small blass sformer substatic June 1968 a probeted. Facilities oven batteries, am plant. The six served complete.	on, fabricat pable iron o under const a coke by-pr x small blas	ion building and a sine sintering and con ruction in December roducts section, two the furnaces at the enterior at the plant	storage building were ncentration plant had 1969 included two byrolling mills and a ast side of the plant	
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converter sho foundry, tran complete. By been construction product coke probable stea were never ob	p, six small blass sformer substatic June 1968 a probeted. Facilities oven batteries, am plant. The six served complete.	on, fabricat pable iron o under const a coke by-pr x small blas	ion building and a sine sintering and con ruction in December roducts section, two the furnaces at the enterior at the plant	storage building were ncentration plant had 1969 included two byrolling mills and a ast side of the plant	
converter sho foundry, tran complete. By been construct roke probable stea were never ob	p, six small blass sformer substatic June 1968 a probeted. Facilities oven batteries, am plant. The six served complete.	on, fabricat pable iron o under const a coke by-pr x small blas	ion building and a sine sintering and con ruction in December roducts section, two the furnaces at the enterior at the plant	storage building were ncentration plant had 1969 included two byrolling mills and a ast side of the plant	
converter sho foundry, tran complete. By been construct roke probable stea were never ob	p, six small blas sformer substatic June 1968 a prob ted. Facilities oven batteries, a m plant. The six served complete.	on, fabricat pable iron o under const a coke by-pr x small blas	ion building and a sine sintering and con ruction in December roducts section, two the furnaces at the enterior at the plant	storage building were ncentration plant had 1969 included two byrolling mills and a ast side of the plant	
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converter sho foundry, tran complete. By been construct product coke probable stea were never ob	p, six small blas sformer substatic June 1968 a prob ted. Facilities oven batteries, a m plant. The six served complete.	on, fabricat pable iron o under const a coke by-pr x small blas	ion building and a sine sintering and con ruction in December roducts section, two the furnaces at the enterior at the plant	storage building were ncentration plant had 1969 included two byrolling mills and a ast side of the plant	
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converter sho foundry, tran complete. By been construct product coke probable stea were never ob	p, six small blas sformer substatic June 1968 a prob ted. Facilities oven batteries, a m plant. The six served complete.	on, fabricat pable iron o under const a coke by-pr x small blas	ion building and a sine sintering and con ruction in December roducts section, two the furnaces at the enterior at the plant	storage building were ncentration plant had 1969 included two byrolling mills and a ast side of the plant	

TOP SECRET

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Key to Annotations

Item No.	Description	Dimensions (F†)	Roof Cover (Sq Ft)	Remarks
1	Blast Furnaces (6) (incomplete)	-	-	Not operational in April 1966
2	Unidentified Building U/C	300 × 60	18,000	Construction started between June and November 1968
3	Probable Fire Brick Plant	325 x 35	10,605	-
4	Side-blown Converter Shop	290 × 55	15,950	2 Cupola and 2 converter furnaces
5	Rolling Mill U/C	610 x 55	40,085	Construction started between April and November 1966
6	Blast Furnaces (6)	-	_	Small
7	Rolling Mill U/C	585 × 105	52,300	Construction started prior to April 1966. Partly operational prior to August 1969
8	Probable Foundry	315 x 85	34,215	August 1909
9	Transformer Substation	212 X 03	J+,21J	4 Transformers
10	Fabrication Building	Irregular	34,630	
1.1	Blast Furnaces (2)	-	_	Medium
12	Probable Steamplant U/C	-	-	Construction started between October 1967 and June 1968
13	Probable Iron Ore Sintering and Concentration Plant	-	-	Completed between April 1966-June 1968
14	Storage Building	315 × 80	25,200	
15	By-product Coke Oven Batteries (2) U/C	-	· -	Construction started prior to April 1966
16	Coke By-products Section U/C	-	-	Construction started between November 1966 and October 1967

NSTALLATION OR A	ACTIVITY NAME			COUNTRY	
ang-chou Iror	n and Steel Pl	an†		CH	
JTM COORDINATES	GEOGRAPHIC CO			<u> </u>	25X1
MAP REFERENCE	30-21-30N I			······································	
	CRET Series 20	J, Sheet MO492	?-IIHL, 4†h ed, ≀	May 69, Scale 1:200,000	25X1
ATEST IMAGERY U	SED	7	NEGATION DATE (If re	quired)	057/4
				NA	25X1
		BASIC DES	SCRIPTION		
An unider	rtified buildi	ng has been un	ider construction	n in the northeastern par	†
f Hang-chou I magery used i	ron and Steel n the previous	Plant since F report. Sit	ebruary 1969, the preparations	ne date of the latest for this building were	
irst evident	in February 1	969 and the bu	ilding was near been observed.	ing completion in Decembe	r
A low lev	el of activit	y was observed	l at the plant in	n December 1969. Raw	
aterials and	finished prod	ucts were seen	in the storage	yards.	
					25X1
					¬ _
			-26		2
		TOP SEC			25X1

STALLATION OR A	CTIVITY NAME		C	OUNTRY	-
siang-tan Iro M COORDINATES	on and Steel F			CH	
9RFA877783	27-48-50N I				25X1
5th RTS. US/	ATC, S <u>eries 20</u> ECRET	00, Sheet MO49	97-5HL, 2nd ed. Nov 65. Scale 1	:200.000	25X1
TEST IMAGERY US	ED		NEGATION DATE (If required)		
			NA		25
		BASIC DESC			
ebruary 1969 truction has uilding. Li A low le	, the date of apparently be ttle progress vel of activit	the latest in een suspended has been obse ty was observe	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pi magery used in the previous rep on the probable open-hearth fu erved since January 1967.	ort. Con- urnace ed imagery.	
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1
ebruary 1969 truction has uilding. Li A low le o smoke or s	, the date of apparently be ttle progress vel of activit team was evide	the latest in een suspended has been obse ty was observe ent; however,	ne Hsiang-tan Iron and Steel Pinagery used in the previous reponthe on the probable open-hearth fuerved since January 1967.	ort. Con- urnace ed imagery.	25X1

-27-

TOP SECRET

	CTIVITY NAME			COUNTRY	
Hsiang-tan Iro	on Plant			СН	
UTM COORDINATES	GEOGRAPHIC COO				25X1
49RFA818953 MAP REFERENCE	27-58 - 10N	<u></u>			
	ATC, Series 20 ECRET	00, Sheet MO4	97-5HL, 2nd ed, Nov 65, Sc	cale 1:200,000	25X1
ATEST IMAGERY US	ED		NEGATION DATE (If required)		
			NA		2
No chang	es have been (observed at t	SCRIPTION he Hsiang-tan Iron Plants	since February	
remains incom	e of the late: plete and has ography of Mar	undergone no	ed in the previous report. significant change since	it was first	
No activ	ity was obser	ved at the pl	ant on the referenced imag	gery.	
					25X1

	101	SECKEI	
INSTALLATION OR AC	TIVITY NAME		COUNTRY
Hsuan-hua Iron	and Steel Plant Lung-	yen	CH
UTM COORDINATES	GEOGRAPHIC COORDINATES		
50TUK373949 MAP REFERENCE	40-35-30N 15-04-15E		
15th RTS. USA	TC, Series 200. Sheet I	MO289-21HL. 5th ed. Auc	1 68. Scale 1:200.000
LATEST IMAGERY USE	ED	NEGATION DATE (If required	i)
		NA	
	BASIC	DESCRIPTION	
No change since February report.	es have been observed a 1969, the date of the	t the Hsuan-hua Iron ar latest photography use	nd Steel Plant Lung-yen ed in the previous
A moderate	: level of activity was	observed at the plant	on the referenced image
			_

TOP SECRET

		RDP79T00909A000700010		25X1
STALLATION OR AC	TIVITY NAME		COUNTRY	
			COUNTRY	
M COORDINATES	Plant Lung-yen	ATES	CH	25X1
TLK347950 PREFERENCE	40-35-31N 115-			25/1
ith RTS. USA	TC, Series 200	Shoot MA289_2141 5+6	ad Aug 60 Carla 1 200 a	25X1
(SE)	CRÉT.	NEGATION DATE	(If required)	
				25X1
			NA	
		BASIC DESCRIPTION		
No change	s have been obse	rved at the Hsuan-hua	Iron Plant Lung-yen since	
bruary 1969,	The date of the	latest photography us	ed in the previous report	•
A moderate agery.	elevel of activ	ity was observed at th	e plant on the referenced	
				 25X1

THE THE ENTITION OF AC	TIVITY NAME		COUNTRY
luana abib l	1.07 1.51 1. T		
Huang-shin irc	on and Steel Plant Ta-y	eḥ ————————————————————————————————————	СН
	GEOGRAPHIC COORDINATES		
ORLJ 197429 AP REFERENCE	30-12-15N 115-07-23E		
2nd RTS. USAT (SEC	C, Series 200, Sheet MC RET/	0493-11HL, 4th ed, Jul 68, Sca	ale 1:200.000
ATEST IMAGERY USE		NEGATION DATE (If required)	
		NA NA	
previous repor	d -	ne date of the latest imagery	
		served on the referenced image	
		served on the referenced image	
		served on the referenced image	
		served on the referenced image	
		served on the referenced image	

	5/20 : CIA-RDP79T009	03/4000700010011-7		
	TOP SEC	CRET		25)
NSTALLATION OR ACTIVITY NA	ME		COUNTRY	-
	I Ctaal Diant		CH	
Hu-ho-hao-te Iron and OTM COORDINATES GEOGRAF	PHIC COORDINATES	1	Ch	_ 25
	3-05N -36-10E			20.
MAP REFERENCE		90 1911 2nd ad Eab 65 Can	o 1:200 000	
(SECRET	ies 200, Sheet MOZ	88-18HL, 2nd ed, Feb 65, Sca	e 1:200,000	25
ATEST IMAGERY USED		NEGATION DATE (If required)		-
		NA		25
	BASIC DES	CRIPTION		
- :	() () () () () () () () () ()	and in landad 7 5 postions	ilos wost	
southwest of the cent	ter of the walled s	ant is located 3.5 nautical rection of Hu-ho-hao-te. The	plant is	
road and rail served,	partially secured	l by a wall, and occupies an a hao-te Thermal Power Plant	area approxi-	25
is located <u>immediatel</u>	<u>ly to </u> the south and	I the Hu-ho-hao-te Iron and S^{-}	teel Plant	
Hsin-sheng	is 2 nautica	l miles to the northeast.		25
The iron and ste	el plant contains	a fire brick plant, seven bee	ehive coke	
oven batteries, four rolling mills, and nu	blast turnaces, on merous storage/sup	e side-blown converter shop, port buildings (Figure 8).	inree	
_			concod	
imagery. The beehive	e coke oven batteri	ved at this plant on the refe es appear to be inactive and	the blast	
. • ,		ation. However, there is ac	tivity at	
furnaces have not bee	en observed in oper	a aumhor of roll core		
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		_ 25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		 25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		 25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25.
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25.
furnaces have not bee the plant as indicate	en observed in oper ed by changes in th	e number of rail cars.		25.

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25X1

TOP SECRET

Key to Annotations

Item No.	Description	Dimensions (F†)	Roof Cover (Sq Ft)	Remarks
l 2 3	Rolling Mill Blast Furances (4) Side-blown Converter Shop	rregular - 350 x 20	97,745 - 42,000	- Small 2 cupola furnaces
4 5 6 7	Fire Brick Plant Rolling Mill Rolling Mill Beehive Coke Ovens (7) Batteries	rregular 575 × 75 945 × 65 -	17,800 36,240 87,840	2 converter furnaces Appear to be inactive



INSTALLATION OR AC	TIVITY NAME		COUNT	RY
4				
<u>Hu-ho-hao-te Ir</u>	<u>ron and Steel Plant Hsin-</u> s	heng*	СН	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO. 25X
49TER530198	40-49-28N -37-43E		None	None
MAP REFERENCE		·	·	<u> </u>
15th RTS. USAT	C, Series 200, Sheet M028	88-18HL, 2nd ed. Feb 65. 9	Scale I:200	0.000
(SEC				25X
LATEST IMAGERY USE	D	NEGATION DATE (If required)		
				25X
		NA NA		
*This plant has	no steel making faciliti	es and its name should be	e changed -	to the
Hu-ho-hao-te l	ron Plant Hsin-sheng. Ac	tion has been initiated	to have the	e Basic
Encyclopedia d				

BASIC DESCRIPTION

Hu-ho-hao-te Iron Plant Hsin-sheng is located in the western section of Hu-ho-hao-te and is road and rail served. The plant occupies two separately secured areas, each approximately 1,600 by 1,300 feet in size.

One of the two plant areas contains eight blast furnaces. The other area contains two by-product coke oven batteries and a small coke by-products section (Figure 9).

When the plant was first seen on photography in February 1966, the eight blast furnaces were complete, and the by-product coke ovens and coke by-products section were under construction. By March 1970, one by-product coke oven battery and the coke by-products section were complete but the second by-product coke oven battery remained under construction.

A low level of activity was observed at the plant on the referenced imagery. One blast furnace was observed operating in August and November 1969.

Key to Annotations

Item No.	<u>Description</u>	Remarks
2 3	Blast Furnaces (8) By-product Coke Oven Battery (2) Coke By-products Section	Small One under construction Battery U/C
		25X1

TOP SECRET



INSTALLATION OR AC	CTIVITY NAME		COUNT	RY	•
	on and Steel Plant U/C		CH	1	
UTM COORDINATES	GEOGRAPHIC COORDINATES	BE NUMBER	COMIREX NO.	NIETB NO.	25X1
47RQV6742	26-34-24N 101-41-00E	None	None	None	
MAPREFERENCE AMS. Series L5 (Unclassi	00, Sheet NG47-8, Ist ed, fied)	1954, Scale 1:250,000			
LATEST IMAGERY USE	D	NEGATION DATE (If required)			
		NA			25X1

BASIC DESCRIPTION

Jen-ho-chieh Iron and Steel Plant is under construction in the mountainous terrain of southwest China, 104 nautical miles north-northwest of Kun-ming. The plant is located on the north bank of the Chin-sha River approximately 5 nm northwest of Jen-ho-chieh. The iron and steel plant is an integral part of an industrial complex covering approximately 50 square miles. The complex, which is road and rail served, also contains two power plants, a cement plant, an iron ore concentration plant, and several mining and support areas.

The iron production facilities under construction within the plant include a blast furnace (probable medium size), footings for an undetermined number of additional blast furnaces, a coke by-products section, two by-product coke oven batteries, four large unidentified buildings, raw material storage yards, and an unidentified facility (Figure 10). A fabrication building has been constructed within the construction support area. Storage tanks and pipe utilized in construction are assembled here. Footings for additional buildings have been observed. Facilities for the production of steel and finished materials have not been identified within this area of the industrial complex; however, they will probably be constructed later.

Construction associated with the iron production facilities has been evident since November 1965 when a few support buildings were observed. By January 1967, the support area had been enlarged and site preparations for the plant were underway. Construction of the by-products coke oven batteries, coke by-products section and four unidentified buildings was started between April 1967 and March 1968. The fabrication building was completed during this period. Between December 1968 and March 1969 construction of the blast furnaces and the unidentified facility was started, and the raw materials storage yard was evident in April 1969. The coke by-products section was nearing completion in January 1970.

Plant construction has progressed slowly, probably due to the absence of rail service. Until January 1970 the area was accessible only by roads. Between September 1969 and January 1970, however, through rail service from Kun-ming was completed. With the completion of the rail line from Kun-ming, construction of the plant should proceed more rapidly.

Key to Annotations

<u> tem</u>	Description	Remarks
1 2	Blast Furnace By-product Coke Oven Batteries (2)	Probable medium size
3	Unidentified Buildings (4)	
4	Graded Area	Construction sites
5	Fabrication Building	
6	Coke By-products Section	Nearing Completion
7	Raw Materials Storage Yards (2)	
8	Unidentified Facility	

TOP SECRET



ved For Release 2008/05/20 : CIA-F	RDP79T00909 1 UP SE 0	9A000700010011-7 - .KE I			25X1
INSTALLATION OR ACTIVITY NAME			···	COUNTRY	_
Kuang-chou Iron and Steel Pl	ant			СН	
UTM COORDINATES GEOGRAPHIC COORD 49QGR298525 23-04-03N 1					25X1
MAP REFERENCE 548th RTG. USATC, Series 20 (SECRET/	O, Sheet MO	614-6HL. 5th ed. 1	Mav 68. Scal	e 1:200 000	
ATEST IMAGERY USED		NEGATION DATE (If requ	ired)		20/11
			NA		25 —
	BASIC DE	SCRIPTION			
spur which extends through t confirmed as a foundry, prob is observed adjacent to the monitors. The possible forg Construction on this buildin building has not been finish A moderate level of act imagery. The foundry and the for the first time on the Au	ably contai foundry, but e shop is no g has appared. ivity was ole medium si:	ning several elec- t smoke has been voor complete as pro- ently been suspend oserved at the pla- ze blast furnace v	tric furnace: vented through eviously reponded and one of	s. No stack gh the roof prted. end of the	

-40-

TOP SECRET

ISTALLATION OR AC	CTIVITY NAME			COUNTRY	_
_u-ta Steel Pl	ant*			CH	
TM COORDINATES	GEOGRAPHIC COORDINA 38-57-42N 121-36				25X1
AP REFERENCE	38-37-42N 121-36	-2/6			
	ATC, Series 200, S ECRET	heet MO381-10HL,	. 3rd ed, May 63, 9	Scale 1:200,000	25X1
ATEST IMAGERY USE	ED	NEGATIO	ON DATE (If required)		
			NA		25X1
otion has bee					_
	and Steel Plant.	ange ine name of	this plant in the	Basic Encyclope	edia
		BASIC DESCRIPTIO	И		
One mediu	m size blast furn	ace has been cor	structed in the so	outhern portion	
eferenced rep	ort. Constructio	n of the blast f	he latest photogra Turnace was started	d between April	
and October 19 Construction a	69, and by Januar activity which may	y 1970 it was ei represent the s	ther complete or instart of a second b	nearing completion Dlast furnace was	on.
also observed	in January 1970.	No other change	es have been observ	ved at the plant.	
A high le	vel of activity w	as observed at t	the plant on the re	eferenced photogr	aphy.
					25X1
Occument					25X1
	3/0259/60 Lu +o	Steel Plant Iv	to China lung II	260	25X1
	3/0258/69, <u>L</u> u−†a 3		†a, China, June IS	969,	25X1 25X1
			†a, China, June IS	069,	
			†a, China, June IS	969,	
			†a, China, June IS	069,	
			†a, China, June IS	769,	
			†a, China, June IS	969,	
			†a, China, June IS	069,	
			†a, China, June IS	969,	
			†a, China, June IS	769,	
			†a, China, June IS	969,	
			†a, China, June IS	069,	
Occument CIA. RCS I			†a, China, June IS	969,	25X1
			†a, China, June IS	69,	

NSTALLATION OR A	CTIVITY NAME	COUNTR	Υ
Ma-an-shan Ir	on and Steel Plant	C	1
TM COORDINATES	GEOGRAPHIC COORDINATES 31-43-01N 118-28-44E	•	25X1
AP REFERENCE	31 43 01N 110 20 44L		
th RTS. USA	CC, Series 200, Sheet MO	493–4HL, 4th ed, Apr 68. Scale I:200.(000
(SEC	CRET.	NEGATION DATE (If required)	25X1
			2
		NA NA	
	DACIO	DECODED TO A	
		DESCRIPTION	
nd December i	969 in the northeast sec	tified building was begun between Octo ction of this plant, adjacent to one o	ober of
ne side-blowr	n converter shops. † is	s the only significant construction latest imagery used in the previous) i
eport.	isos, me date of me	ialest imagery used in the previous	
A high le	evel of activity was obse	erved at the plant on the latest image	arv
ŭ	,	Timage	51 y •
			25X1

STALLATION OR AC	TIMITY NAME		COUNTRY	
n-chang Iron	and Steel Plant GEOGRAPHIC COORDINAT	ES	CH	25X1
RMG016686	28-38-38N 115-5			
PREFERENCE d RTS. USAT	C, Series 200, She	et MO493-22HL, 4th ed, Ma	y 68, Scale 1:200,000	
(SEC		NEGATION DATE (If requ	uired)	25X1
		NA		25X1
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o rolling mi	lls and two uniden complete as of De	tified buildings previous	sly observed under constr	uction
		observed at the plant or	n the referenced imagery.	
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STALLATION OR AC	CTIVITY NAME		COUNTRY
an-ching Coki	ng Plant Yung-II Steel*		CH
M COORDINATES	GEOGRAPHIC COORDINATES		1
)SPL647652	32-12-12N 118-44-55E		
PREFERENCE d RTS. USAT (SEC		86-22HL, 3rd ed. Sep 67. Sca	ale 1:200.000
TEST IMAGERY USE	ED	NEGATION DATE (If required)	
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	Iron and Steel Plant Yung-		
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STALLATION OR A	CTIVITY NAME				COUNTRY	
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TM COORDINATES 19TCR944002	GEOGRAPHIC COC 40-39-01N				<u>,</u>	
APREFERENCE and RTS. USA	TC Series 200	0. Sheet MO288-	-22HL '3rd ed	Aug 68. S	Scale 1:200.000	
	CRET		NEGATION DATE (If		1,1200,1000	25X1
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		BASIC DESC	CRIPTION			
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STALLATION OR	ACTIVIT	TY NAME							OUNTRY	
en-chi Iron	and S	Steel Pla	ant Kung	g-yuan					СН	
M COORDINATES		OGRAPHIC CO 1-16-48N				-				25X1
PREFERENCE					1	441		^ .		 25X1
	SECRE	T	200 , 5116	ser MOZ				. Scale	1:200.000	25X1
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No ch a n	ges ha	ave been the date	observe	ed at t	he Pen-	chi Iron	and Stee	el Plant	Kung-yuan ous report.	
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			COUNTRY	
⁹ en-chi Iron Plánt		1000	CH	
TM COORDINATES GEOGRAPHIC COORDINATES 5 TWF636738 4 - 9- 3N				25X1
AP REFERENCE	(1 44)	<i>c</i>		 25X1
USATC, Series 200, Sheet MO290-16F	ıL, 4TN ed, Jul	bb, Scal	e 1:200,000 -	25X1
ATEST IMAGERY USED NEGA	TION DATE (If required)			,
	, NA		.* [']	2
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BASIC DESCRIPT	ION			:
No changes have been observed at the Pen	-chi Iron Plant	since M	arch 1969, the	•
date of the latest photography used in the pr	revious report.			
A high level of activity was observed at	the plant on t	he refer	enced imagery.	y [*] ý
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-48-				25X1



FIGURE 12. SAN-MING IRON AND STEEL PLANT

-49-

TOP SECRET

25X1

25X1 25X1

INSTALLATION OR AC	TIVITY NAME		COUNTRY	_
San-ming Iron a	nd Steel Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES			25X1
50RNE610048	26-15-38N 117-36-44E			
MAP REFERENCE				
5th RTS. USAT	C, <u>Series 200, Sheet MO4</u>	98-14HL, 3rd ed, Dec 67, Scale	1:200,000	
(SEC	RET			25X1
LATEST IMAGERY USE	D	NEGATION DATE (If required)		

NA

BASIC DESCRIPTION

San-ming Iron and Steel Plant is located I nm north of San-ming (San-yuan) on the west bank of the Sha Chi (River). The plant is road and rail served, partially secured by a wall, and occupies an irregular shaped area of approximately 7,000 by 4,000 feet. The San-ming Heat and Thermal Power Plant is collocated 25X1 with the Iron and steel plant.

The plant contains two small blast furnaces, a side-blown converter shop, three rolling mills, two probable fabrication buildings, an ore processing facility, a coke handling facility, and numerous storage/support buildings (Figure 12).

Most of the major production components, including the blast furnaces, side-blown converter, and one rolling mill, were observed complete in September 1963. The cre processing and coke handling facilities were completed by August 1965. The two probable fabrication buildings and the rolling/blooming mill were completed by January 1967. Only one production component, the third rolling mill, was still under construction when the plant was last observed on December 1969 photography.

A low level of activity was observed at the plant on imagery from September 1963 through January 1967. Between September 1968 and December 1969 a moderate level of activity was observed.

Key to Annotations

Item No.		Dimensions (F+)	Roof Cover (Sq Ft)	Remarks
I	Rolling/Blooming Mill	450 × 105 290 × 115	47,250 33,350	Soaking pits are probably located at the northeast end of mill
2 3 4 5	Side-blown Converter Shop Blast Furnaces (2) Blower House	415 x 115	47,725	At least 3 converters Small
5	Rolling Mill U/C	540 × 100	54,000	Under construction approximately 70% complete
6	Probable Fabrication Building	490 × 165	80,850	
7	Probable Fabrication Building	405 × 105	42 , 525	
8	Rolling Mill	440×120	52,800	
9	Heat and Thermal Power Plant		•	
10	Ore Processing and Coke Handling Facility			

TOP SECRET

25X1 25X1



INSTALLATION OF AC	TIVITY NAME		COUNTRY	
Shang-hai Iron	and Steel Plant No. I GEOGRAPHIC COORDINATES		СН	
				25X1
51RUE553687 MAP REFERENCE	31-21-02N 21-28-52E			
	Series 200 Shoot MO49	92-2HL, 3rd ed, Dec 68, Sc	nln 1.200 000	
(SECRI	ET/	ed. Dec 88. Sc.	are 1:200.000	25X1
LATEST IMAGERY USE	D	NEGATION DATE (If required)		
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		NA		4
	BASIC	DESCRIPTION		
No changes	have been observed at S	Shang-hai Iron and Steel P	lant No. I since	
No changes March 1969, the	have been observed at S		lant No. I since report.	
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P	report.	
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
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March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
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March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .
March 1969, the	have been observed at S date of the latest imag	Shang-hai Iron and Steel P gery used in the previous	report.	y .

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ISTALLATION OR ACTIVITY NAME		COUNTRY	_
ang-hai Iron and Steel Pla IM COORDINATES GEOGRAPHIC COO		CH	 25X1
RUE549523 31-11-29N P REFERENCE	21-28-40E		
d RTS. USATC, <u>Series 200</u> , (SECRE√	Sheet MO492-7HL. 3rd ed. Mav	68. Scale 1:200.000	25X1
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he name of this facility s roduced. Action has been	hould be the Shang-hai Steel P initiated to have the Basic En	lant, as iron is not be	ing
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	BASIC DESCRIPTION		
	served at the Shang-hai Steel		
	photography used in the previ		
A high level of activit	ry was observed at the plant on	the referenced imagery	
			25X1
			25X1

INSTALLATION OR ACTIVITY NAME Shang-hai Steel Plant No. 5 UTW COORDINATES GEOGRAPHIC COORDINATES JIRUE552737 31-23-08N 121-28-49E MAP REFERENCE 2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET/ LATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION Two of the three buildings observed under construction at this plant in March 1969 have been completed, while construction of the third building appears to have been suspended. The completed building agst of the open hearth building is a probable forge shop (approximately 220 by 160 feet) and the building north of the side blown converter shop is a storage building (approximately 300 by 80 feet). A moderate level of activity was observed at the plant on the referenced imag								
Shang-hai Steel Plant No. 5 UTM COORDINATES SIRUE552737 31-23-08N 121-28-49E MAP REFERENCE 2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET/ LATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION Two of the three buildings observed under construction at this plant in March 1969 have been completed, while construction of the third building appears to have been suspended. The completed building east of the open hearth building is a prob able forge shop (approximately 220 by 160 feet) and the building north of the side blown converter shop is a storage building (approximately 300 by 80 feet).								
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Shang-hai Steel Plant No. 5 UTM COORDINATES 51RUE552737 31-23-08N 121-28-49E MAP REFERENCE 2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET/ LATEST IMAGERY USED BASIC DESCRIPTION Two of the three buildings observed under construction at this plant in March 1969 have been completed, while construction of the third building appears to have been suspended. The completed building east of the open hearth building is a prob able forge shop (approximately 220 by 160 feet) and the building north of the side blown converter shop is a storage building (approximately 300 by 80 feet).	LLATION OR ACT	TIVITY NAME					COUNTRY	
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INSTALLATION OR AC	TIVITY NAME	COUNTRY	
Shao-kuan Non-f	errous Metals Plant*	, CH	 25X
49RGT654330 MAP REFERENCE	24-41-52N 113-37-30E		
15th RTS. USAT	C, Series 200, Sheet 0498 RET)	3-21HL, 1st ed, Mar 62, Scale 1:200,000	
LATEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA	25X
*Action has bee	n initiated to change the	e name of this plant in the Basic Encyclo	 ped i a

BASIC DESCRIPTION

to the Shao-kuan Iron and Steel Plant Ma-pa.

Construction has continued at the Shao-kuan Iron and Steel Plant since February 1969, the date of the latest imagery used in the previous report.

In October 1969 an unidentified building was observed in an early stage of construction in the east area of the plant. By December 1969 a nine-track railroad holding yard had been completed between the eastern and western plant sections. A second blast furnace (Figure 13, Item 7) previously observed under construction appeared to be nearing completion, and a third blast furnace (Item 6) was in an early stage of construction. In addition, two new by-product coke oven batteries (Item 3) were newly identified; one was complete or nearing completion, and the other was under construction.

The two previously unidentified buildings in the eastern section of the plant have been identified as a steam plant (Item 4) and cooling towers with associated spray ponds (Item 5).

A moderate level of activity was evident at this plant on the referenced imagery. In October 1969, the rolling mill (Item 8) was observed in operation for the first time and a reactivated blast furnace (Item I) in the western section of the plant was operating.

What appeared to be smoke was observed over the by-product coke oven battery, but no smoke was coming from the stack.

Remarks

Key to Annotations

<u>Description</u>

•	l 2	Blast Furnace Railroad Holding Yard	Small	
	3	By-product Coke Oven Batteries (2)		
	4	Steam Plant		
	5	Cooling Towers and Spray Pond		
	6	Blast Furnace Under Construction		
	7	Blast Furnace	Medium	
	8	Unidentified Building Under Construction	Med 7 dill	
	9	Rolling Mill		
				25X1
				1

25X1

-56

Item No.

NSTALLATION OR ACTIVITY NAME hen-yang ron and Steel Plant CH TIM GOORDINATES GEOGRAPHIC COORDINATES 25 TITWG423306 41-49-49N 123-30-24E USATC, Secies 200. Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000 25 (SECRET SECRET 25 ATEST IMAGERY USED NEGATION DATE (If required) NA 25 NA 25 NA 25 NA 26 NA 26 NA 26 NA 26 NA 27 NA 10 NA 26 NA 27 NA 28 NA 28 NA 29 NA 29 NA 20 NA 20			TOP SEC	CRET		25
ITW COORDINATES GEOGRAPHIC COORDINATES ITW GAZ3306 41-49-49N 123-30-24E USATC, Series 200. Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000 25 (SECRET 25 ATEST IMAGERY USED NEGATION DATE (If required) NA 25 BASIC DESCRIPTION No changes have been observed at the Shen-yang Iron and Steel Plant since lovember 1968, the date of the latest imagery used in the previous report. A high level of activity was observed at the plant on the referenced imagery.	NSTALLATION OR AC	TIVITY NAME			COUNTRY	_
ITM COORDINATES GEOGRAPHIC COORDINATES ITWG423306 41-49-49N 123-30-24E USATC, Series 200. Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000 25 (SECRET 25 ATEST IMAGERY USED NEGATION DATE (If required) NA 25 BASIC DESCRIPTION No changes have been observed at the Shen-yang Iron and Steel Plant since lovember 1968, the date of the latest imagery used in the previous report. A high level of activity was observed at the plant on the referenced imagery.					011	
ITWG423306 41-49-49N 123-30-24E INAPREFERENCE USATC, Series 200. Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000 (SECRET NEGATION DATE (If required) NA 25 BASIC DESCRIPTION No changes have been observed at the Shen-yang Iron and Steel Plant since lovember 1968, the date of the latest imagery used in the previous report. A high level of activity was observed at the plant on the referenced imagery.	hen-yang Iron	and Steel Pla	n†		CH	
DISATC, Series 200. Sheet M0290-IIHL, 4th ed, Jan 66, Scale 1:200,000 (SECRET 25 ATEST IMAGERY USED NEGATION DATE (If required) NA 25 BASIC DESCRIPTION No changes have been observed at the Shen-yang Iron and Steel Plant since lovember 1968, the date of the latest imagery used in the previous report. A high level of activity was observed at the plant on the referenced imagery.		1				
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	ovember 1968,	the date of t	served at the he latest in	he Shen-yang Iron and Stee magery used in the previou	s report.	
	lovember 1968,	the date of t	served at the he latest in	he Shen-yang Iron and Stee magery used in the previou	s report.	
	lovember 1968,	the date of t	served at the he latest in	he Shen-yang Iron and Stee magery used in the previou	s report.	_
	lovember 1968,	the date of t	served at the he latest in	he Shen-yang Iron and Stee magery used in the previou	s report.	
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	lovember 1968,	the date of t	served at the he latest in	he Shen-yang Iron and Stee magery used in the previou	s report.	



FIGURE 14. SHIH-CHING-SHAN IRON AND STEEL PLANT,

25X1

TOP SECRET UNCODED

INSTALLATION OR AC	CTIVITY NAME		COUNTRY	
Shih-ching-shar utm coordinates	lron and St	eel Plant ORDINATES	СН	25X1
50SMV278179		116-09-15E		
MAPRÉFERENCE ACIC USATO S	Series 200 S	heet MO381-IHL	., 4th ed, Nov 65, Scale 1:200,000	
(SECRET		HOOT MOSOT THE		_ 2
LATEST IMAGERY US	ED		NEGATION DATE (If required)	
			NA	25X1
			100	_
		BASIC DE	SCRIPTION	
lron and Steel previous repor	Plant since t. The addit ruction when	January 1969, ion is approxi observed in De	has been constructed at the Shih-ching-sha the date of the latest imagery used in the imately 1,285 by 170 feet and was in a la- ecember 1969 (see Figure 14). No other rea.	he
A high le	vel of activi	ty was observe	ed at the plant on the referenced imagery	•
				25X1
				25X1

TOP SECRET

	IUP SECKET		
INSTALLATION OR ACTIVITY NAME		COUNTRY	
	1.01		
Shih-tsui-shan Iron and Stee UTM COORDINATES GEOGRAPHIC COO	RDINATES	L CH	
48SXU554340 39-09-00N 1	06-48-00E*		
MAPREFERENCE USATC, Series 200	 , Sheet 0383–4HL, Ist ed, Oc-	+ 62 Scale 1.200 000	25X1
(CONFIDENTIAL)			
LATEST IMAGERY USED	NEGATION DATE (If red	quired)	
		NA 2	25X1
*The geographic coordinates	should be changed to 39-18-45	5N 106-47-15E. Action has	
been initiated to have the	Basic Encyclopedia changed.		
	BASIC DESCRIPTION		
No changes have been ob	served at the Shih-tsui-shan	Iron and Steel Plant since	
December 1968, the date of t	he latest imagery used in the	e referenced report.	
No activity has been ob	served at this plant since it	t was seen on March 1963	
norography. The operationa	I status of the plant could r		
		2	25X1



OSPJ037886 39-38- N 8- 2-06E		2000/03/20 : 01/4-1	IUP SEC	A000700010011-7 KL I			20/1
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IN CORPONATES GEOGRAPHIC COORDINATES 25X1 SEPRETARING 39-38-IIN 118-12-06E 25X1 AFREFERENCE USATC, Series 200, Sheet MO381-2HL, 2nd ed, Jan 64, Scale 1:200,000 25X1 ATEST MACERY USED NEGATION DATE ((freshired) 25X1 ATEST MACER	NSTALLATION OR A	CTIVITY NAME		·		COUNTRY	
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25.74	A moderate	e level of activ	vity was obs	erved at the pla	nt on the r	eferenced ima	agery.
25.74							25Y1
25X1							_ ZJ/\ I
-62- Z5X1							20/1
-62- Z5X1							25/1
25X1							23/1
-62-							23/1
-62- Z5X1							23/1
-62 ₋							23/1
-62- 25X1							23/1
-62-							23/1
62							23/1
-62- 25X1							23/1
-62- 25X1							23/1
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INSTALLATION OR ACTIVITY NAME COUNTRY ITEM-ching Steel Plant No. 2 UTM COORDINATES GEOGRAPHIC COORDINATES MAP REFERENCE 15th RTS. USATC, Series 200, Sheet M0381-6HL, 3rd ed, May 64, Scale 1:200,000 (SECRET LATEST IMAGERY USED BASIC DESCRIPTION Between February and December 1969, modification was completed on the west side of the building which housed the side-blown converter shop at Tien-ching Series roof were removed, beginning sometime between when observed in December 1969, the roof of the building had been replaced. It present function of this building cannot be determined. A moderate level of activity was observed at the plant on the referenced in be basic oxygen furnace was not observed in operation, but ladle cars were obswithin the immediate area of the basic oxygen furnace.	
ien-ching Steel Plant No. 2 ITM COORDINATES GEOGRAPHIC COORDINATES OSNU231260 AP REFERENCE 5th RTS. USATC, Series 200, Sheet M0381-6HL, 3rd ed, May 64, Scale 1:200,000 (SECRET ATEST IMAGERY USED NEGATION DATE (If required) NA Between February and December 1969, modification was completed on the west ide of the building which housed the side-blown converter shop at Tien-ching Stant No. 2. The blower system, three converter furnaces and a section of the ng's roof were removed, beginning sometime between then observed in December 1969, the roof of the building had been replaced. It resent function of this building cannot be determined. A moderate level of activity was observed at the plant on the referenced the basic oxygen furnace was not observed in operation, but ladle cars were observed.	
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	magery. served
	25X1



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February 1969, the date of the latest photography used in the previous report.	BASIC L	DESCRIPTION	
	No changes have been observed at the	ne Wu-lu-mu-chi Iron and Stee	I Plant since
A moderate level of activity was observed at the plant on the referenced image	ebruary 1969, the date of the latest pr	notograpny used in the previo	us report.
	A moderate level of activity was ob	served at the plant on the r	eferenced imager

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